

## Claims:

1. A medication delivery device,  
 characterized in that  
 5 it comprises a basis module (1) and one or more  
 replaceable modules (2, 3, 4, 5, 6) each of which is  
 adapted to cooperate mechanically and/or electronically  
 with the basis module to provide a specific function, and  
 the basis module includes resources that are jointly used  
 10 by the replaceable modules.

2. A medication delivery device according to claim 1,  
 characterized in that  
 the basis module (1) at least comprises means for holding  
 15 (11) a medication cartridge (12), means for transferring  
 (13, 14, 15) a part of or all of a medication (123)  
 contained in said medication cartridge (12) from said  
 medication cartridge to a user, means for receiving (16)  
 one or more replaceable modules (2, 3, 4, 5, 6), and  
 20 means for supplying (17, 18) electric energy to the basis  
 module and to the replaceable modules.

3. A medication delivery device according to claim 1 or  
 2,  
 25 characterized in that  
 the basis module (1) further comprises electronic means  
 (31) for monitoring and controlling the medication  
 delivery process and for communicating with replaceable  
 modules and with the user.

4. A medication delivery device according to claim 2 or  
 3,  
 characterized in that  
 said medication cartridge (12) is replaceable and has an  
 35 outlet (121) and a movable wall (122), which, when  
 displaced in the direction of the outlet (121), forces

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8. A medication delivery device according to any one of claims 3-7,

c h a r a c t e r i z e d in that

5 electronic means for monitoring and controlling (31, 32) the medication delivery process and for communicating with replaceable modules and with the user are contained in a replaceable module themselves.

10 9. A medication delivery device according to any one of claims 3-8,

c h a r a c t e r i z e d in that

15 said electronic means (31, 32) at least comprise means for controlling a delivered dose by controlling the displacement (33) of the movable wall (122) with said piston rod (15), through a control of the electrically driven actuating means (13) via the driving means (14) for transferring movement from said electrically driven actuating means (13) to said piston rod (15), and means for monitoring the volume of delivered medication  
20 corresponding to said displacement (33) of said movable wall (122), means for inputting (312) data from the user, memory means (313) for storing data, means for communicating (311, 32) with the replaceable modules (2, 3, 4, 5, 6), means for controlling (314) the function of  
25 the basis module and the replaceable modules, processing means (311) for processing input data, for processing data received from the replaceable modules and for processing data stored in said memory means, and a display (315) for visualizing said data.

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10. A medication delivery device according to any one of claims 3-9,

c h a r a c t e r i z e d in that

35 said electronic means (31) include means for reading (316) an item of information on a replaceable medication cartridge (12) when said cartridge is placed in said

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means for holding (11) a replaceable medication cartridge, and means for processing (311) said item of information.

5 11. A medication delivery device according to any one of claims 3-10,  
c h a r a c t e r i z e d in that  
said electronic means are adapted to receive a user-specific unit (314) containing user data, functional  
10 check procedures and user authorizing procedures.

12. A medication delivery device according to claim 11,  
c h a r a c t e r i z e d in that  
said user-specific unit (314) is a chip card.

15 13. A medication delivery device according to any one of claims 1-12,  
c h a r a c t e r i z e d in that  
the replaceable modules may be chosen from a group  
20 consisting of

- a replaceable module (201) containing a system for blood glucose monitoring;
- a replaceable module (202) containing a system for continuously measuring blood glucose;
- 25 • a replaceable module (203) containing a modem for allowing communication with a data communications network;
- a replaceable module (204) containing a communications interface for wireless communication with other  
30 devices;
- a replaceable module (205) containing fixed wire interfaces for communication with one or more of a personal computer, a camera, a TV-monitor, an acoustic device, a telephone, a mobile telephone;
- 35 • a replaceable module (206) containing the functionality of a mobile telephone;

- [Handwritten signature]*

14. A medication delivery device according to any one of  
10 claims 1-13,  
c h a r a c t e r i z e d in that  
the basis module and the replaceable modules are provided  
with replaceable covers (7, 8, 9).

16. A method of making a medication delivery device,  
c h a r a c t e r i z e d in that  
it comprises the steps of

- 25 • (62) defining and constructing a basis module  
containing common resources, and
- (63) defining and constructing one or more replaceable  
modules each of which being adapted to cooperate  
mechanically and electronically with the basis module  
30 to provide a specific function, and
- (64) deciding a configuration of functions according  
to need, based on a selection of possible functions,  
and
- (65) composing a device implementing the decided  
35 functions by combining the relevant basic module and  
one or more replaceable modules,

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